

387	ATA AAT GGT ATC AAA GAT GCA AGG AAG GTC ACT GTA GGT GTG ATT GGA AGT GGA	405	414	423	432
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I N G I K D A R K V T V G V I G S G					
441	GAT TTT GCC AAA TCC TTG ACC ATT CGA CTT ATT AGA TGC GGC TAT CAT GTG GTC	459	468	477	486
---	---	---	---	---	---
D F A K S L T I R L I R C G Y H V V					
495	ATA GGA AGT AGA AAT CCT AAG TTT GCT TCT GAA TTT TTT CCT CAT GTG GTA GAT	513	522	531	540
---	---	---	---	---	---
I G S R N P K F A S E F F P H V V D					
549	GTC ACT CAT CAT GAA GAT GCT CTC ACA AAA ACA AAT ATA ATA TTT GTT GCT ATA	567	576	585	594
---	---	---	---	---	---
V T H H E D A L T K T N I I F V A I					
603	CAC AGA GAA CAT TAT ACC TCC CTG TGG GAC CTG AGA CAT CTG CTT GTG GGT AAA	621	630	639	648
---	---	---	---	---	---
H R E H Y T S L W D L R H L L V G K					

FIGURE 1B

657	ATC	CTG	ATT	GAT	GTG	AGC	AAT	AAC	ATG	AGG	ATA	AAC	CAG	TAC	CCA	GAA	TCC	AAT	702
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
I	L	I	D	V	S	N	N	N	M	R	I	N	Q	Y	P	E	S	N	
711	GCT	GAA	TAT	TTG	GCT	TCA	TTA	TTC	CCA	GAT	TCT	TTG	ATT	GTC	AAA	GGA	TTT	AAT	756
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
A	E	Y	L	A	S	L	L	F	P	D	S	L	I	V	K	G	F	N	
765	GTT	GTC	TCA	GCT	TGG	GCA	CTT	CAG	TTA	GGA	CCT	AAG	GAT	GCC	AGC	CGG	CAG	GTT	810
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
V	S	A	A	W	A	L	L	Q	L	G	P	K	D	A	S	R	Q	V	
819	TAT	ATA	TGC	AGC	AAC	AAT	ATT	CAA	GCG	CGA	CAA	CAG	GTT	ATT	GAA	CTT	GCC	CGC	864
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Y	I	C	S	N	N	I	I	Q	A	R	Q	Q	V	I	E	L	A	R	
873	CAG	TTG	AAT	TTC	ATT	CCC	ATT	GAC	TTG	GGA	TCC	TTA	TCA	TCA	GCC	AGA	GAG	ATT	918
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Q	L	N	F	I	P	I	I	D	L	G	S	L	S	S	A	R	E	I	

FIGURE 1C

927	936	945	954	963	972
GAA AAT TTA CCC CTA CGA CTC TTT ACT CTC TGG AGA GGG CCA GTG GTG GTA GCT					
---	---	---	---	---	---
E N L P L R L R L F T L W R G P V V A					
981	990	999	1008	1017	1026
ATA AGC TTG GCC ACA TTT TTT TTC CTT TAT TCC TTT GTC AGA GAT GTG ATT CAT					
---	---	---	---	---	---
I S L A T F F F L Y S F V R D V I H					
1035	1044	1053	1062	1071	1080
CCA TAT GCT AGA AAC CAA CAG AGT GAC TTT TAC AAA ATT CCT ATA GAG ATT GTG					
---	---	---	---	---	---
P Y A R N Q Q Q S D F Y K I P I E I V					
1089	1098	1107	1116	1125	1134
AAT AAA ACC TTA CCT ATA GTT GCC ATT ACT TTG CTC TCC CTA GTA TAC CTC GCA					
---	---	---	---	---	---
N K T L P I V A I T L L S L V Y L A					
1143	1152	1161	1170	1179	1188
GGT CTT CTG GCA GCT GCT TAT CAA CTT TAT TAC GGC ACC AAG TAT AGG AGA TTT					
---	---	---	---	---	---
G L L A A A Y Q L Y Y G T K Y R R F					

FIGURE 1D

1197	1206	1215	1224	1233	1242
CCA CCT TGG TTG GAA ACC TGG TTA CAG TGT AGA AAA CAG CTT GGA TTA CTA AGT					
---	---	---	---	---	---
P P W L E T W L Q C R K Q L G L L S					
1251	1260	1269	1278	1287	1296
TTT TTC TTC GCT ATG GTC CAT GTT GCC TAC AGC CTC TGC TTA CCG ATG AGA AGG					
---	---	---	---	---	---
F F F A M V H V A Y S L C L P M R R					
1305	1314	1323	1332	1341	1350
TCA GAG AGA TAT TTG TTT CTC AAC ATG GCT TAT CAG CAG GTT CAT GCA AAT ATT					
---	---	---	---	---	---
S E R Y L F L N M A Y Q Q V H A N I					
1359	1368	1377	1386	1395	1404
GAA AAC TCT TGG AAT GAG GAA GAA GTT TGG AGA ATT GAA ATG TAT ATC TCC TTT					
---	---	---	---	---	---
E N S W N E E E V W R I E M Y I S F					
1413	1422	1431	1440	1449	1458
GGC ATA ATG AGC CTT GGC TTA CTT TCC CTC CTC CTG GCA GTC ACT TCT ATC CCT TCA					
---	---	---	---	---	---
G I M S L G L L S L L A L A V T S I P S					

FIGURE 1E

1467	1476	1485	1494	1503	1512
GTG AGC AAT GCT TTA AAC TGG AGA GAA TTC AGT TTT ATT CAG TCT ACA CTT GGA					
V S N A L N W R E F S F I Q S T L G					
1521	1530	1539	1548	1557	1566
TAT GTC GCT CTG CTC ATA AGT ACT TTC CAT GTT TTA ATT TAT GGA TGG AAA CGA					
Y V A L L I S T F H V L I Y G W K R					
1575	1584	1593	1602	1611	1620
GCT TTT GAG GAA GAG TAC TAC AGA TTT TAT ACA CCA CCA AAC TTT GTT CTT GCT					
A F E E E Y Y R F Y T P P N F V L A					
1629	1638	1647	1656	1665	1674
CTT GTT TTG CCC TCA ATT GTA ATT CTG GGT AAG ATT ATT TTA TTC CTT CCA TGT					
L V L P S I V I L G K I I L F L P C					
1683	1692	1701	1710	1719	1728
ATA AGC CGA AAG CTA AAA CGA ATT AAA AAA GGC TGG GAA AAG AGC CAA TTT CTG					
I S R K L K R I K K K G W E K S Q F L					

FIGURE 1F

1737	1746	1755	1764	1773	1782
GAA GAA GGT ATT GGA GGA ACA ATT CCT CAT GTC TCC CCG GAG AGG GTC ACA GTA					
---	---	---	---	---	---
E E G I G G T I P H V S P E R V T V					
1791	1800	1809	1818	1827	1836
ATG TGA TGA TAA ATG GTG TTC ACA GCT GCC ATA TAA AGT TCT ACT CAT GCC ATT					
---	---	---	---	---	---
M					
1845	1854	1863	1872	1881	1890
ATT TTT ATG ACT TCT ACG TTC AGT TAC AAG TAT GCT GTC AAA TTA TCG TGG GTT					
GA 3'					
--					

FIGURE 1G

1	MES	I	S	M	G	S	P	K	S	L	S	E	T	C	L	P	N	G	I	N	G	I	K	D	A	R	K	7492448			
1	MES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	K	g6572948			
31	V	T	V	G	V	I	G	S	G	D	F	A	K	S	L	T	I	R	L	I	R	C	G	Y	H	V	I	G	S	7492448	
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g6572948		
61	R	N	P	K	F	A	S	E	F	F	P	H	V	D	V	T	H	H	E	D	A	L	T	K	T	N	I	I	F	7492448	
6	-	-	-	-	-	-	-	-	-	-	-	-	-	D	I	T	N	Q	E	E	-	-	-	-	-	-	-	-	g6572948		
91	V	A	I	H	R	E	H	Y	T	S	L	W	D	L	R	H	L	L	V	G	K	I	L	I	D	V	S	N	M	7492448	
13	-	-	-	-	-	-	-	-	-	-	L	W	K	M	K	P	-	-	-	-	-	-	-	-	-	-	R	R	N	L	g6572948
121	R	I	N	Q	Y	P	E	S	N	A	E	Y	L	A	S	L	F	P	D	S	L	I	V	K	G	F	N	V	V	S	7492448
23	E	E	D	D	Y	L	H	K	D	T	G	-	E	T	S	M	L	K	R	P	V	L	-	-	-	-	-	-	-	-	g6572948
151	A	W	A	L	Q	L	G	P	K	D	A	S	R	Q	V	Y	I	C	S	N	N	I	Q	A	R	Q	Q	V	I	E	7492448
44	-	-	-	L	H	L	-	H	Q	T	A	H	A	D	E	F	D	C	P	S	E	L	Q	H	T	Q	E	-	-	-	g6572948
181	L	A	R	Q	L	N	F	I	P	I	D	L	G	S	L	S	S	A	R	E	I	E	N	L	P	L	R	L	F	T	7492448
67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L	F	P	g6572948	
211	L	W	R	G	P	V	V	A	I	S	L	A	T	F	F	F	L	Y	S	F	V	R	D	V	I	H	P	Y	A	7492448	
70	Q	W	H	L	P	I	K	I	A	A	I	A	S	L	T	F	L	Y	T	L	L	R	E	V	I	H	P	L	A	g6572948	

FIGURE 2A

241	R	N	Q	Q	S	D	F	Y	K	I	P	I	E	I	V	N	K	T	L	P	I	V	A	I	T	L	L	S	L	V	7492448
100	T	S	H	Q	Q	Y	F	Y	K	I	P	I	L	V	I	N	K	V	L	P	M	V	S	I	T	L	L	A	L	V	g6572948
271	Y	L	A	G	L	L	A	A	A	Y	Q	L	Y	Y	G	T	K	Y	R	R	F	P	P	W	L	E	T	W	L	Q	7492448
130	Y	L	P	G	V	I	A	A	I	V	Q	L	H	N	G	T	K	Y	K	K	F	P	H	W	L	D	K	W	M	L	g6572948
301	C	R	K	Q	L	G	L	L	S	F	F	F	A	M	V	H	V	A	Y	S	L	C	L	P	M	R	R	S	E	R	7492448
160	T	R	K	Q	F	G	L	L	S	F	F	F	A	V	L	H	A	I	Y	S	L	S	Y	P	M	R	R	S	Y	R	g6572948
331	Y	L	F	L	N	M	A	Y	Q	Q	V	H	A	N	I	E	N	S	W	N	E	E	E	V	W	R	I	E	M	Y	7492448
190	Y	K	L	L	N	W	A	Y	Q	Q	V	Q	Q	N	K	E	D	A	W	I	E	H	D	V	W	R	M	E	I	Y	g6572948
361	I	S	F	G	I	M	S	L	G	L	L	S	L	L	A	V	T	S	I	P	S	V	S	N	A	L	N	W	R	E	7492448
220	V	S	L	G	I	V	G	L	A	I	L	A	L	L	A	V	T	S	I	P	S	V	S	D	S	L	T	W	R	E	g6572948
391	F	S	F	I	Q	S	T	L	G	Y	V	A	L	L	I	S	T	F	H	V	L	I	Y	G	W	K	R	A	F	E	7492448
250	F	H	Y	I	Q	S	K	L	G	I	V	S	L	L	L	G	T	I	H	A	L	I	F	A	W	N	K	W	I	D	g6572948
421	E	E	Y	Y	R	F	Y	T	P	P	N	F	V	L	A	L	V	L	P	S	I	V	I	L	G	K	I	L	L	F	7492448
280	I	K	Q	F	V	W	Y	T	P	P	T	F	M	I	A	V	F	L	P	I	V	V	L	I	F	K	S	I	L	F	g6572948

FIGURE 2B

451	L P C I S R K L K R I K K G W E K S Q F L E F G I G G T I P	7492448
310	L P C L R K K I L K I R H G W E D - - - - -	g6572948
481	H V S P E R V - T V M	7492448
329	K I N K T E I C S Q L	g6572948

FIGURE 2C